

### **lecture notes in physics pdf**

arXiv:gr-qc/9712019v1 3 Dec 1997 Lecture Notes on General Relativity Sean M. Carroll Institute for Theoretical Physics University of California Santa Barbara, CA 93106

### **Lecture Notes on General Relativity - arXiv.org e-Print**

This section provides lecture notes from the course.

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5 B. Special Relativity 1. Michelson-Morley a. Wave speeds Midway through the 19th century, it was established that light is an electromagnetic (E-M) wave. Maxwell showed that these waves propagate through the vacuum with a speed  $c \approx 3 \times 10^8$  m/sec. Now, wave motion was well understood, so it was expected that light waves would behave

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Lecture 5 (Feb. 6) " Pressure in liquids and gases " Measuring and using pressure " Archimedes' principle (float or sink?)

### **Lecture 5 (Feb. 6) - UMD Department of Physics**

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Course Overview. Information is something that can be encoded in the state of a physical system, and a computation is a task that can be performed with a physically realizable device. Therefore, since the physical world is fundamentally quantum mechanical, the foundations of information theory and computer science should be sought in quantum physics.

### **Physics 219 Course Information - Caltech Particle Theory**

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Physics of Magnetism and Magnetic Materials K. H. J. Buschow Van der Waals-Zeeman Instituut Universiteit van Amsterdam Amsterdam, The Netherlands

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